



Exploring Exponential Functions

This little app will allow you to explore the effects of changing the parameters (variables) of an exponential function. Some things to look at:

1. Leave the rate at 2 and see what happens when the initial value, a , is increased. Watch the y-intercept. 2. Leave the rate at 2 and see what happens when the initial value, a , is decreased. What happens to the graph when a becomes a negative number?
3. Set $a = 5$. Now see what happens when the rate, b , is changed. First look at what happens when r is increased. What does the graph appear to be doing?
4. Now look at what happens when you decrease r . At what point does the graph "flip" over and become decay?

initial value (a) : { , 7.8 }

rate (b) : { , 3.34 }

$$f(x) = a * b^x$$

$$f(x) = 7.8 * 3.34^x$$

Growth Type:

Growth

